

CLAIMS

What is claimed is:

- 1 1. A method for transmitting information over a wireless network,
2 comprising:
3 converting incoming wireless signals to intermediate frequency (IF)
4 signals;
5 transmitting the converted IF signals over a wired network;
6 retrieving the transmitted IF signals from the wired network; and
7 converting the retrieved IF signals to digital data that can be routed to a
8 destination.
- 1 2. The method of claim 1, wherein the converting of the incoming
2 wireless signals includes converting radio frequency (RF) signals to IF signals.
- 1 3. The method of claim 1, wherein the wired network includes
2 alternating current (AC) wiring.
- 1 4. The method of claim 3, wherein the IF signals are baseband
2 signals.
- 1 5. The method of claim 1, wherein the destination is at least one of a
2 gateway and server.
- 1 6. An Access Point comprising:
2 a radio frequency (RF) up/ down converter to convert RF signals to
3 intermediate frequency (IF) analog signals; and
4 an IF module to transmit the IF analog signals over a wired
5 communication link for subsequent conversion into digital data at the
6 destination.
- 1 7. The Access Point of claim 6, wherein the wired communication
2 link is alternating current (AC) electrical wiring.
- 1 8. The Access Point of claim 6, wherein the wired communication
2 link is a twisted pair telephone line.
- 1 9. The Access Point of claim 6 further comprising an antenna to
2 receive the RF signals.

- 1 10. An Access Point comprising:
2 a first software module operating as an up/down converter to convert
3 wireless signals to intermediate frequency (IF) analog signals; and
4 a second software module operating in conjunction with the first
5 software module to transmit the IF analog signals over a wired communication
6 link for subsequent conversion into digital data at the destination.
- 1 11. The Access Point of claim 10, wherein the wired communication
2 link is alternating current (AC) electrical wiring.
- 1 12. The Access Point of claim 10, wherein the wired communication
2 link is a twisted pair telephone line.
- 1 13. The Access Point of claim 10 further comprising an antenna to
2 receive the RF signals.
- 1 14. The Access Point of claim 10, wherein the up/down converter is a
2 radio frequency (RF) up/down converter to convert RF signals into the IF
3 analog signals.
- 1 15. An intermediary unit comprising:
2 a connector coupled to a wired communication link;
3 an intermediary frequency (IF) module to receive incoming IF signals
4 over the wired communication link; and
5 an IF-to-Digital converter to convert the incoming IF signals to digital
6 data and format the digital data according to a format associated with a digital
7 communication link.
- 1 16. The intermediary unit of claim 15, wherein the connector is an
2 electrical plug based on the wired communication link being electrical wiring.
- 1 17. The intermediary unit of claim 15, wherein the connector is a
2 telephone plug for insertion into a telephone jack based on the wired
3 communication link being a telephone line.
- 1 18. The intermediary unit of claim 15, wherein the IF-to-Digital
2 converter formats the digital data according to an Ethernet format based on the
3 digital communication link being an Ethernet communication link.
- 1 19. An intermediary unit comprising:

2 a connector coupled to a wired communication link;
 3 an IF-to-Digital converter to receive incoming digital data sent over a
 4 digital communication link, and convert the incoming digital data to IF signals;
 5 and
 6 an intermediary frequency (IF) module to send the IF signals over the
 7 wired communication link to a wired network.

1 20. The intermediary unit of claim 19, wherein the connector is an
 2 electrical plug based on the wired communication link being electrical wiring.

1 21. The intermediary unit of claim 19, wherein the connector is a
 2 telephone plug for insertion into a telephone jack based on the wired
 3 communication link being a telephone line.

1 22. A method for transmitting information over a wireless network,
 2 comprising:
 3 converting incoming digital data to intermediate frequency (IF) signals;
 4 transmitting the converted IF signals over a wired network;
 5 retrieving the transmitted IF signals from the wired network; and
 6 converting the retrieved IF signals to wireless signals that can be routed
 7 to a wireless unit.

1 23. The method of claim 22, wherein the converting of the retrieved
 2 IF signals includes converting the retrieved IF signals to radio frequency (RF)
 3 signals.

1 24. The method of claim 22, wherein the wired network includes
 2 alternating current (AC) wiring.